Application No. 10/585629
Responsive to the office action dated August 26, 2009

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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

- 1. (Currently amended) A method for deuteration of a compound having an aromatic ring, comprising reacting the compound having an <u>optionally substituted</u> aromatic ring with a heavy hydrogen source in the presence of an activated mixed catalyst of not less than <u>comprising at least</u> two <u>kinds of catalysts</u> selected from among the group consisting of a palladium catalyst, a platinum catalyst, a rhodium catalyst, an iridium catalyst, a ruthenium catalyst, a nickel catalyst, and a cobalt catalyst.
- 2. (Original) The method for deuteration according to claim 1, wherein the heavy hydrogen source is a deuterated solvent.
- 3. (Original) The method for deuteration according to claim 2, wherein the deuterated solvent is heavy water (D_2O) .
- 4. (Currently amended) The method for deuteration according to claim 1, wherein the activated mixed catalyst is a catalyst obtained by activating a mixed catalyst of not less than comprising at least two kinds of catalysts selected from among the group of non-activated catalysts consisting of a non-activated palladium catalyst, a platinum catalyst, a rhodium catalyst, an iridium catalyst, a ruthenium catalyst, a nickel catalyst, and a cobalt catalyst by contacting the non-activated catalysts with bydrogen gas or heavy hydrogen gas.
- 5. (Original) The method for deuteration according to claim 4, wherein the contact of the non-activated mixed catalyst with hydrogen gas or heavy hydrogen gas is carried out in a reaction system of the deuteration.

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- 6. (Original) The method for deuteration according to claim 1, wherein the activated mixed catalyst is an activated mixed catalyst of a palladium catalyst and a platinum catalyst.
- 7. (Original) The method for deuteration according to claim 6, wherein the palladium catalyst is palladium carbon.
- 8. (Original) The method for deuteration according to claim 6, wherein the platinum catalyst is platinum carbon.
- 9. (Original) The method for deuteration according to claim 6, wherein the activated mixed catalyst of a palladium catalyst and a platinum catalyst has a weight ratio of each metal in the palladium catalyst and the platinum catalyst of 1:99 to 99: 1.
- 10. (Currently amended) The method for deuteration according to claim 1, wherein the compound having an <u>optionally substituted</u> aromatic ring has <u>en at least one</u> <u>optionally substituted alkyl group</u>

alkylene chain-bonded to the aromatic ring.

- 11. (Currently amended) The method for deuteration according to claim 1, wherein the compound having an <u>optionally substituted</u> aromatic ring has an alkylamino group bonded to the aromatic ring.
- 12. (Currently amended) The method for deuteration according to claim 1, wherein the compound having an <u>optionally substituted</u> aromatic ring has a carboxyl group bonded to the aromatic ring.
- 13. (New) The method for deuteration according to claim 1, wherein the compound having an optionally substituted aromatic ring has at least one optionally substituted alkenyl group bonded to the aromatic ring.